

## Supplementary Material

Supplementary Table S1: Surface requirement and the potential biomass yield per settlement

Area_updat	Name_Villa	Popul ation	Area_ Bmin	Area_ Bmax	Area_ Wmin	Area_ Wmax	Area_ Pmin	Area_ Pmax	Yield_ Bmin	Yield_ Bmax	Yield_ Wmin	Yield_ Wmax	Yield_ _Pmi n	Yield_ Pmax
3404530.122	Atrauli	65334	17.97	60.76	17.97	111.72	17.97	167.91	485	1,641	153	950	180	1,679
287690.1077	Bhojpur Rampur	8272	2.27	7.69	2.27	14.15	2.27	21.26	61	208	19	120	23	213
204312.1464	Chandiyana	7906	2.17	7.35	2.17	13.52	2.17	20.32	59	199	18	115	22	203
273958.8015	Panahara	7441	2.05	6.92	2.05	12.72	2.05	19.12	55	187	17	108	20	191
306607.591	Nahal Chirauri Taluka	5679	1.56	5.28	1.56	9.71	1.56	14.60	42	143	13	83	16	146
192699.5759	Jargwan	5506	1.51	5.12	1.51	9.42	1.51	14.15	41	138	13	80	15	142
179368.7199	Lahra Salempur Inayatpur	5498	1.51	5.11	1.51	9.40	1.51	14.13	41	138	13	80	15	141
271921.0759	Samaspur	5358	1.47	4.98	1.47	9.16	1.47	13.77	40	135	13	78	15	138
300452.9817	Palimukimpur	5311	1.46	4.94	1.46	9.08	1.46	13.65	39	133	12	77	15	136
336031.966	Lohgarh	5205	1.43	4.84	1.43	8.90	1.43	13.38	39	131	12	76	14	134
241100.9245	Barhesara	5121	1.41	4.76	1.41	8.76	1.41	13.16	38	129	12	74	14	132
200150.4364	Naroopura Katka	4672	1.28	4.34	1.28	7.99	1.28	12.01	35	117	11	68	13	120
291819.8343	Harnot Bhojpur	4519	1.24	4.20	1.24	7.73	1.24	11.61	34	113	11	66	12	116
142144.7724	Dadar Alupura	4448	1.22	4.14	1.22	7.61	1.22	11.43	33	112	10	65	12	114
193090.7998	Rajmargpur	4221	1.16	3.93	1.16	7.22	1.16	10.85	31	106	10	61	12	108
254969.8396	Badholi	4220	1.16	3.92	1.16	7.22	1.16	10.85	31	106	10	61	12	108
157416.5611	Baharabad	4190	1.15	3.90	1.15	7.16	1.15	10.77	31	105	10	61	12	108
178438.0198	Khedeia Rafatpur	4133	1.14	3.84	1.14	7.07	1.14	10.62	31	104	10	60	11	106
258640.5143	Gahtauli Nirmal	4108	1.13	3.82	1.13	7.02	1.13	10.56	31	103	10	60	11	106
158008.4847	Bidhipur	4029	1.11	3.75	1.11	6.89	1.11	10.35	30	101	9	59	11	104
147720.608	Dudhma	3948	1.09	3.67	1.09	6.75	1.09	10.15	29	99	9	57	11	101
152215.3849	Jakhaira	3940	1.08	3.66	1.08	6.74	1.08	10.13	29	99	9	57	11	101
156381.1771	Baimbirpur	3788	1.04	3.52	1.04	6.48	1.04	9.74	28	95	9	55	10	97
295313.8961	Jirauli Dhoom Singh	3701	1.02	3.44	1.02	6.33	1.02	9.51	27	93	9	54	10	95
179494.7028	Dinapur	3405	0.94	3.17	0.94	5.82	0.94	8.75	25	85	8	49	9	88
148468.675	Simthala	3388	0.93	3.15	0.93	5.79	0.93	8.71	25	85	8	49	9	87
281785.33	Khedia Bahadur Garhi	3361	0.92	3.13	0.92	5.75	0.92	8.64	25	84	8	49	9	86
185941.804	Datacholi Khurd	3329	0.92	3.10	0.92	5.69	0.92	8.56	25	84	8	48	9	86
161994.4161	Maupur Bhaupur	3312	0.91	3.08	0.91	5.66	0.91	8.51	25	83	8	48	9	85
89251.39701		3276	0.90	3.05	0.90	5.60	0.90	8.42	24	82	8	48	9	84

112897.9015	Suratgarh	3258	0.90	3.03	0.90	5.57	0.90	8.37	24	82	8	47	9	84
154231.5178	Mohsanpur	3219	0.89	2.99	0.89	5.50	0.89	8.27	24	81	8	47	9	83
187626.5824	Nagla Harji	3109	0.85	2.89	0.85	5.32	0.85	7.99	23	78	7	45	9	80
147657.7564	Kakethal	3065	0.84	2.85	0.84	5.24	0.84	7.88	23	77	7	45	8	79
164299.0713	Bahona Kotra	3056	0.84	2.84	0.84	5.23	0.84	7.85	23	77	7	44	8	79
155168.6464	Dhurra Khas	3005	0.83	2.79	0.83	5.14	0.83	7.72	22	75	7	44	8	77
147558.2927		2967	0.82	2.76	0.82	5.07	0.82	7.63	22	75	7	43	8	76
120494.1595	Khanpur Khitauli	2925	0.80	2.72	0.80	5.00	0.80	7.52	22	73	7	43	8	75
146113.8369		2871	0.79	2.67	0.79	4.91	0.79	7.38	21	72	7	42	8	74
162545.3581	Raipur Khas	2809	0.77	2.61	0.77	4.80	0.77	7.22	21	71	7	41	8	72
150725.3308	Datacholi Buzurg	2794	0.77	2.60	0.77	4.78	0.77	7.18	21	70	7	41	8	72
110870.0014	Oreni Dalpatpur	2749	0.76	2.56	0.76	4.70	0.76	7.06	20	69	6	40	8	71
140683.1791	Raipur Dalpatpur	2745	0.75	2.55	0.75	4.69	0.75	7.05	20	69	6	40	8	71
135914.3096	Sankara Ganeshpur	2687	0.74	2.50	0.74	4.59	0.74	6.91	20	67	6	39	7	69
156817.1972	Govindpur	2617	0.72	2.43	0.72	4.48	0.72	6.73	19	66	6	38	7	67
0		2583	0.71	2.40	0.71	4.42	0.71	6.64	19	65	6	38	7	66
70992.77492	Alipur	2552	0.70	2.37	0.70	4.36	0.70	6.56	19	64	6	37	7	66
<b>129948.2989</b>	<b>Kasimpur Nagla</b>	<b>2516</b>	<b>0.69</b>	<b>2.34</b>	<b>0.69</b>	<b>4.30</b>	<b>0.69</b>	<b>6.47</b>	<b>19</b>	<b>63</b>	<b>6</b>	<b>37</b>	<b>7</b>	<b>65</b>
161920.7783	Salarpur	2483	0.68	2.31	0.68	4.25	0.68	6.38	18	62	6	36	7	64
75070.85202	Harvanshpur Panihara	2431	0.67	2.26	0.67	4.16	0.67	6.25	18	61	6	35	7	62
104779.8522	Abdullapur	2362	0.65	2.20	0.65	4.04	0.65	6.07	18	59	6	34	6	61
80266.48349	Pokharpur	2348	0.65	2.18	0.65	4.02	0.65	6.03	17	59	5	34	6	60
131951.6739	Ranmochna	2304	0.63	2.14	0.63	3.94	0.63	5.92	17	58	5	33	6	59
139250.6662	Pipli	2293	0.63	2.13	0.63	3.92	0.63	5.89	17	58	5	33	6	59
141047.8161		2287	0.63	2.13	0.63	3.91	0.63	5.88	17	57	5	33	6	59
68058.25337	Ganeshpur	2263	0.62	2.10	0.62	3.87	0.62	5.82	17	57	5	33	6	58
223479.9887	Baijla	2202	0.61	2.05	0.61	3.77	0.61	5.66	16	55	5	32	6	57
115989.5538	Jamanpur Todarpur Gair	2102	0.58	1.95	0.58	3.59	0.58	5.40	16	53	5	31	6	54
114234.3406	Ahatmali	2097	0.58	1.95	0.58	3.59	0.58	5.39	16	53	5	30	6	54
86670.32247	Chalakpur	2075	0.57	1.93	0.57	3.55	0.57	5.33	15	52	5	30	6	53
121073.1063	Kunvarpur	2031	0.56	1.89	0.56	3.47	0.56	5.22	15	51	5	30	6	52
43475.34983		2019	0.56	1.88	0.56	3.45	0.56	5.19	15	51	5	29	6	52
146980.3972	Pilkhuni	2001	0.55	1.86	0.55	3.42	0.55	5.14	15	50	5	29	6	51
104462.1333	Mahgavan	1973	0.54	1.83	0.54	3.37	0.54	5.07	15	50	5	29	5	51

141177.9974	Kasimpur Nagri	1941	0.53	1.81	0.53	3.32	0.53	4.99	14	49	5	28	5	50
82410.2522	Usmanpur	1893	0.52	1.76	0.52	3.24	0.52	4.87	14	48	4	28	5	49
221903.8875	Kaliyanpur	1857	0.51	1.73	0.51	3.18	0.51	4.77	14	47	4	27	5	48
113240.4134	Bhagirathpur	1827	0.50	1.70	0.50	3.12	0.50	4.70	14	46	4	27	5	47
93724.01741		1806	0.50	1.68	0.50	3.09	0.50	4.64	13	45	4	26	5	46
80817.65706	Pyavali	1801	0.50	1.67	0.50	3.08	0.50	4.63	13	45	4	26	5	46
0	Nauari	1799	0.49	1.67	0.49	3.08	0.49	4.62	13	45	4	26	5	46
74507.51982		1752	0.48	1.63	0.48	3.00	0.48	4.50	13	44	4	25	5	45
26156.97187	Nathpur	1747	0.48	1.62	0.48	2.99	0.48	4.49	13	44	4	25	5	45
102874.7301	Mandpur	1742	0.48	1.62	0.48	2.98	0.48	4.48	13	44	4	25	5	45
109065.5318	Saifpur	1718	0.47	1.60	0.47	2.94	0.47	4.42	13	43	4	25	5	44
73257.7729	Bhamraua	1677	0.46	1.56	0.46	2.87	0.46	4.31	12	42	4	24	5	43
94036.91741	Birner_not_sure	1667	0.46	1.55	0.46	2.85	0.46	4.28	12	42	4	24	5	43
121360.4001	Rajatau Seupur	1637	0.45	1.52	0.45	2.80	0.45	4.21	12	41	4	24	5	42
74166.68998	Kirthala	1595	0.44	1.48	0.44	2.73	0.44	4.10	12	40	4	23	4	41
81920.46918		1573	0.43	1.46	0.43	2.69	0.43	4.04	12	39	4	23	4	40
77657.32379	Tochhi	1549	0.43	1.44	0.43	2.65	0.43	3.98	12	39	4	23	4	40
78374.74628		1539	0.42	1.43	0.42	2.63	0.42	3.96	11	39	4	22	4	40
82302.25137	Malahpur	1534	0.42	1.43	0.42	2.62	0.42	3.94	11	39	4	22	4	39
0		1504	0.41	1.40	0.41	2.57	0.41	3.87	11	38	4	22	4	39
81893.22143		1449	0.40	1.35	0.40	2.48	0.40	3.72	11	36	3	21	4	37
80705.99433	Kunjalpur	1427	0.39	1.33	0.39	2.44	0.39	3.67	11	36	3	21	4	37
64884.84423	Bhamsoi	1411	0.39	1.31	0.39	2.41	0.39	3.63	10	35	3	21	4	36
64884.84423	Husainpur	1411	0.39	1.31	0.39	2.41	0.39	3.63	10	35	3	21	4	36
60680.364	Lahaski	1407	0.39	1.31	0.39	2.41	0.39	3.62	10	35	3	20	4	36
75385.10919		1394	0.38	1.30	0.38	2.38	0.38	3.58	10	35	3	20	4	36
31918.00023	Pahar	1387	0.38	1.29	0.38	2.37	0.38	3.56	10	35	3	20	4	36
52694.62402	Garhi_not_sure	1387	0.38	1.29	0.38	2.37	0.38	3.56	10	35	3	20	4	36
52694.62402		1326	0.36	1.23	0.36	2.27	0.36	3.41	10	33	3	19	4	34
93154.48153	Kanakpur	1321	0.36	1.23	0.36	2.26	0.36	3.39	10	33	3	19	4	34
64480.9826	Dhurra Todarpur	1321	0.36	1.23	0.36	2.26	0.36	3.39	10	33	3	19	4	34
73231.26032	Gijrauli	1300	0.36	1.21	0.36	2.22	0.36	3.34	10	33	3	19	4	33
83525.40944		1298	0.36	1.21	0.36	2.22	0.36	3.34	10	33	3	19	4	33
63853.07542		1284	0.35	1.19	0.35	2.20	0.35	3.30	10	32	3	19	4	33
54957.77181	Madhupur	1280	0.35	1.19	0.35	2.19	0.35	3.29	10	32	3	19	4	33
0	Birsinghpur	1277	0.35	1.19	0.35	2.18	0.35	3.28	9	32	3	19	4	33

46149.16345	Mujaffarnagar	1270	0.35	1.18	0.35	2.17	0.35	3.26	9	32	3	18	3	33
85527.24112	Shekhupur	1269	0.35	1.18	0.35	2.17	0.35	3.26	9	32	3	18	3	33
55814.71224	Asharfabad	1262	0.35	1.17	0.35	2.16	0.35	3.24	9	32	3	18	3	32
68553.59233		1236	0.34	1.15	0.34	2.11	0.34	3.18	9	31	3	18	3	32
54595.74709		1181	0.32	1.10	0.32	2.02	0.32	3.04	9	30	3	17	3	30
71661.45325	Pesari	1172	0.32	1.09	0.32	2.00	0.32	3.01	9	29	3	17	3	30
59758.80711	Nagla Rampur	1170	0.32	1.09	0.32	2.00	0.32	3.01	9	29	3	17	3	30
71601.43929	Girdharpur	1169	0.32	1.09	0.32	2.00	0.32	3.00	9	29	3	17	3	30
57450.43207	Hamidpur	1152	0.32	1.07	0.32	1.97	0.32	2.96	9	29	3	17	3	30
68522.78351		1140	0.31	1.06	0.31	1.95	0.31	2.93	8	29	3	17	3	29
56842.72682	Rampur Gosai	1111	0.31	1.03	0.31	1.90	0.31	2.86	8	28	3	16	3	29
96816.80155	Noratha	1108	0.30	1.03	0.30	1.89	0.30	2.85	8	28	3	16	3	28
69467.07239	Khedia Ta Lohgarh	1102	0.30	1.02	0.30	1.88	0.30	2.83	8	28	3	16	3	28
71138.56599		1092	0.30	1.02	0.30	1.87	0.30	2.81	8	27	3	16	3	28
65484.62085	Kamalpur	1076	0.30	1.00	0.30	1.84	0.30	2.77	8	27	3	16	3	28
64280.11881	Nagar	1070	0.29	1.00	0.29	1.83	0.29	2.75	8	27	3	16	3	27
41473.11775		1058	0.29	0.98	0.29	1.81	0.29	2.72	8	27	2	15	3	27
45149.26752	Nagla Khिताuli	1045	0.29	0.97	0.29	1.79	0.29	2.69	8	26	2	15	3	27
30598.74526	Nagla Kosalpuri	937	0.26	0.87	0.26	1.60	0.26	2.41	7	24	2	14	3	24
50619.55309	Tandoli Jahan Khan	884	0.24	0.82	0.24	1.51	0.24	2.27	7	22	2	13	2	23
40804.47541	Jadaupur	880	0.24	0.82	0.24	1.50	0.24	2.26	7	22	2	13	2	23
51323.02594		879	0.24	0.82	0.24	1.50	0.24	2.26	7	22	2	13	2	23
33733.76669		865	0.24	0.80	0.24	1.48	0.24	2.22	6	22	2	13	2	22
47170.46007	Rustam agar	858	0.24	0.80	0.24	1.47	0.24	2.21	6	22	2	12	2	22
40566.5561		831	0.23	0.77	0.23	1.42	0.23	2.14	6	21	2	12	2	21
80841.96565	Man Garhi	822	0.23	0.76	0.23	1.41	0.23	2.11	6	21	2	12	2	21
36424.09755	Khedia Dhaukal	814	0.22	0.76	0.22	1.39	0.22	2.09	6	20	2	12	2	21
71538.30164		797	0.22	0.74	0.22	1.36	0.22	2.05	6	20	2	12	2	20
58329.31161	Nagla Sadak	782	0.22	0.73	0.22	1.34	0.22	2.01	6	20	2	11	2	20
38202.8568		776	0.21	0.72	0.21	1.33	0.21	1.99	6	19	2	11	2	20
35521.71955		776	0.21	0.72	0.21	1.33	0.21	1.99	6	19	2	11	2	20
55979.25395		776	0.21	0.72	0.21	1.33	0.21	1.99	6	19	2	11	2	20
50771.84907	Shahpur Kotra	748	0.21	0.70	0.21	1.28	0.21	1.92	6	19	2	11	2	19
50038.89481		701	0.19	0.65	0.19	1.20	0.19	1.80	5	18	2	10	2	18

56357.17907		694	0.19	0.65	0.19	1.19	0.19	1.78	5	17	2	10	2	18
48829.68629	Nagla Jivaram	693	0.19	0.64	0.19	1.19	0.19	1.78	5	17	2	10	2	18
25716.05858		653	0.18	0.61	0.18	1.12	0.18	1.68	5	16	2	9	2	17
35922.73788		639	0.18	0.59	0.18	1.09	0.18	1.64	5	16	1	9	2	16
46702.71889		604	0.17	0.56	0.17	1.03	0.17	1.55	4	15	1	9	2	16
38557.7605		598	0.16	0.56	0.16	1.02	0.16	1.54	4	15	1	9	2	15
34357.99491		591	0.16	0.55	0.16	1.01	0.16	1.52	4	15	1	9	2	15
27680.57834		570	0.16	0.53	0.16	0.97	0.16	1.46	4	14	1	8	2	15
23418.03643	Gangabas	562	0.15	0.52	0.15	0.96	0.15	1.44	4	14	1	8	2	14
33563.73128		550	0.15	0.51	0.15	0.94	0.15	1.41	4	14	1	8	2	14
43905.06757	Khera Khijarpur	540	0.15	0.50	0.15	0.92	0.15	1.39	4	14	1	8	1	14
17871.40124	Inayatpur Kasba	524	0.14	0.49	0.14	0.90	0.14	1.35	4	13	1	8	1	13
35870.84601		515	0.14	0.48	0.14	0.88	0.14	1.32	4	13	1	7	1	13
50306.05769	Mahaka	512	0.14	0.48	0.14	0.88	0.14	1.32	4	13	1	7	1	13
43076.14951	Valipur	489	0.13	0.45	0.13	0.84	0.13	1.26	4	12	1	7	1	13
0		485	0.13	0.45	0.13	0.83	0.13	1.25	4	12	1	7	1	12
46634.7431		474	0.13	0.44	0.13	0.81	0.13	1.22	4	12	1	7	1	12
17792.20072	Nagla Shyampur	449	0.12	0.42	0.12	0.77	0.12	1.15	3	11	1	7	1	12
34800.51002	Mahera	435	0.12	0.40	0.12	0.74	0.12	1.12	3	11	1	6	1	11
26663.11023		419	0.12	0.39	0.12	0.72	0.12	1.08	3	11	1	6	1	11
24557.72161	Nagla Malah	417	0.11	0.39	0.11	0.71	0.11	1.07	3	10	1	6	1	11
28175.34323		385	0.11	0.36	0.11	0.66	0.11	0.99	3	10	1	6	1	10
37832.68744		385	0.11	0.36	0.11	0.66	0.11	0.99	3	10	1	6	1	10
41517.19971		371	0.10	0.35	0.10	0.63	0.10	0.95	3	9	1	5	1	10
0	Nagla Pritam	364	0.10	0.34	0.10	0.62	0.10	0.94	3	9	1	5	1	9
62959.37622	Mahawali Muhi Uddinpur	355	0.10	0.33	0.10	0.61	0.10	0.91	3	9	1	5	1	9
19768.84177		343	0.09	0.32	0.09	0.59	0.09	0.88	3	9	1	5	1	9
40922.3187		343	0.09	0.32	0.09	0.59	0.09	0.88	3	9	1	5	1	9
17044.90322		330	0.09	0.31	0.09	0.56	0.09	0.85	2	8	1	5	1	8
29721.12509		330	0.09	0.31	0.09	0.56	0.09	0.85	2	8	1	5	1	8
19618.33057		302	0.08	0.28	0.08	0.52	0.08	0.78	2	8	1	4	1	8
15909.55098		261	0.07	0.24	0.07	0.45	0.07	0.67	2	7	1	4	1	7
0	Nagla Bhur	261	0.07	0.24	0.07	0.45	0.07	0.67	2	7	1	4	1	7
30882.36909		247	0.07	0.23	0.07	0.42	0.07	0.63	2	6	1	4	1	6

18191.00865		234	0.06	0.22	0.06	0.40	0.06	0.60	2	6	1	3	1	6
25690.10575		192	0.05	0.18	0.05	0.33	0.05	0.49	1	5	0	3	1	5
33359.47046	Ghagsemar	171	0.05	0.16	0.05	0.29	0.05	0.44	1	4	0	2	0	4
11756.21521		165	0.05	0.15	0.05	0.28	0.05	0.42	1	4	0	2	0	4
8231.119938		137	0.04	0.13	0.04	0.23	0.04	0.35	1	3	0	2	0	4
37136.74831		131	0.04	0.12	0.04	0.22	0.04	0.34	1	3	0	2	0	3
8596.318748		124	0.03	0.12	0.03	0.21	0.03	0.32	1	3	0	2	0	3
7930.119822		96	0.03	0.09	0.03	0.16	0.03	0.25	1	2	0	1	0	2
5958.738282		82	0.02	0.08	0.02	0.14	0.02	0.21	1	2	0	1	0	2
5839.232611		34	0.01	0.03	0.01	0.06	0.01	0.09	0	1	0	0	0	1
78939.6872	Gaon Khera	6	0.00	0.01	0.00	0.01	0.00	0.02	0	0	0	0	0	0
31410.96141	Ahmadpur	6	0.00	0.01	0.00	0.01	0.00	0.02	0	0	0	0	0	0
73602.08843	Janakpur	6	0.00	0.01	0.00	0.01	0.00	0.02	0	0	0	0	0	0
120569.1929	Madhauli	6	0.00	0.01	0.00	0.01	0.00	0.02	0	0	0	0	0	0
7362.893399	Jargwan_incomp	6	0.00	0.01	0.00	0.01	0.00	0.02	0	0	0	0	0	0
35411.84642	Muhammadpur	6	0.00	0.01	0.00	0.01	0.00	0.02	0	0	0	0	0	0
41372.43991	Badhaira_incomp	6	0.00	0.01	0.00	0.01	0.00	0.02	0	0	0	0	0	0
113507.3786	Barhaul_incomp	6	0.00	0.01	0.00	0.01	0.00	0.02	0	0	0	0	0	0
	Hardoi_incomp	6	0.00	0.01	0.00	0.01	0.00	0.02	0	0	0	0	0	0
			Area_ Bmin	Area_ Bmax	Area_ Wmin	Area_ Wmax	Area_ Pmin	Area_ Pmax	Yield_ Bmin	Yield_ Bmax	Yield_ Wmin	Yield_ Wmax	Yield_ Pmin	Yield_ Pmax
39137		2,014	108	364	108	669	108	1,006	2,906	9,827	915	5,689	1,076	10,058
30985		1,624	85	288	85	530	85	796	2,301	7,781	724	4,504	852	7,963
19733		1,076	54	184	54	337	54	507	1,465	4,955	461	2,868	543	5,072

Supplementary Table S2: Cost overview bamboo WfSRC system in Aligarh (India)

Item / Activity	Unit	INR/unit	Total in INR	Total in USD
<b>Preperation of field- 1 ha (CAPEX)</b>				
Site and plant selection (soil analysis, ground water check)	1	50000	50000	600
Machine and worker for levelling and ploughing the field	1	63600	63600	763
Fencing the field (wire fencing)	1	150000	150000	1800
Per sapling (bamboo) + transport	10000	60	600000	7200
Cost per worker (day)	300	450.00	135000	1620
Total			<b>998600</b>	<b>11983.2</b>
<b>Infrastructure (CAPEX)</b>				

Pond with clay lining (installed)	1	720000	720000	8640
Submerged pump (installed), 3 in 25 years	3	125000	375000	4500
Flow meter (installed), 3 in 25 years	3	85000	255000	3060
Water traps (extraction of percolation water)	9	1600	14400	173
Pressure reducer, pipes and valves (3 systems 25 years)	3	271000	813000	9756
Cost per worker (day)	300	450.00	135000	1620
Total			<b>2312400</b>	<b>27749</b>
<b>O&amp;M (25 years) OPEX</b>				
Maintainance-Man-days (weeding-first year, furrows, harvesting)	2500	450	1125000	13500
Chemicals fighting pests (e.eg. Termites)	25	4500	112500	1350
Electricity (kw/h) pump 6 h/day (12 Rs/KWh)	6500	360	2340000	28080
Equipment (maintaing /harvesting)	25	8000	200000	2400
Analysis of water samples (COD, BOD, TSS, TKN, TP)	25	25000	625000	7500
Cost of supervising the system	300	600	180000	2160
Cost of deconstruction, soil tilling	1	75000	75000	900
Total			<b>4657500</b>	<b>55890</b>
Cost per year (average of 25 years)			<b>318740</b>	<b>3825</b>